



High Frequency Over-the-Horizon Radar: Fundamental Principles, Signal Processing, and Practical Applications

Dr. Giuseppe Fabrizio

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THE MOST COMPLETE GUIDE TO HIGH FREQUENCY OVER-THE-HORIZON RADAR SYSTEMS

Written by a leading global expert on the topic, *High Frequency Over-the-Horizon Radar* provides in-depth coverage of the signal processing models and techniques that have significantly advanced OTH radar technology. This pioneering work describes the fundamental principles of OTH radar design and operation, and then delves into the mathematical modeling of HF signals received by actual OTH radar systems based on experimental data analysis. Numerous examples illustrate the practical application of modern adaptive signal processing techniques to real and simulated OTH radar data.

This authoritative text covers skywave and surface-wave systems and is an invaluable resource for researchers, engineers, and practitioners working with OTH radar systems and technologies.

Key Features:

- Offers a thorough and accurate treatment of essential concepts ranging from system design and operation, through to signal processing methods, and their practical application.
- Provides clear explanations of fundamental principles for scientists, engineers, students, practitioners, technicians, managers, and other professionals starting out in this field.
- Offers a detailed coverage of theoretical and applied signal-processing concepts and techniques that have become a cornerstone for the effective operation of real-world OTH radar systems.
- Fills a long-standing void in the contemporary OTH radar literature with over 350 illustrations (color figures available for download), and over 500 references.

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